

## **Paul Loree**

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### **Education**

Ph.D. (ABD) Computer Science North Dakota State University 2015 (expected)  
M.S. Computer Science North Dakota State University 2010  
B.S. Computer Science, Mathematics Minot State University 2008

### **Organizations and Honors**

Upsilon Pi Epsilon Int'l Honor Society for the Computing and Information Disciplines  
Institute of Electrical and Electronic Engineers (IEEE), IEEE Computer Society, IEEE Communications Society  
Association for Computing Machinery (ACM)

### **Academic Experience**

2013 - Present

*Instructor*, Department of Mathematics and Computer Science, Minot State University, Minot, ND.

2010 - 2012

*Instructor*, Department of Mathematics and Computer Science, Minot State University, Minot, ND.

2008 - 2010

*Graduate Research Assistantship*. Department of Computer Science, North Dakota State University, Fargo, ND.

### **Non Academic Experience**

*IT Technician*. Trinity Health 2007-2008

*Help Desk Supervisor*. The Computer Store 2005-2008

*Computer Technician*. Sykes Enterprises, Inc. 1999-2005

### **Advisor**

Dr. Kendall Nygard (2008 – present)

### **Research Interests & Statement**

Computer networks, wireless networks and communication, wireless ad hoc networks, mobile computing, and computer and network security.

My current research is focused on developing methods for securing the communication links between nodes in mobile wireless ad hoc networks. My research focuses on two problems in mobile ad hoc networks; developing algorithms for providing encryption key management to nodes connecting to the network and methods for detecting malicious node which may be present in the network using fuzzy logic.

### **Awards, Funding, and Other Support**

ND EPSCoR Graduate Student Research Assistantship 2008-2010

UND Aerospace Scholarship 2008.

Gertrude M. Eck Scholarship 2008.

SMART Grant 2007.

## **Publications and Scholarly Work**

Loree, P., Du, X., Nygard, K., “An Efficient Post-Deployment Key Establishment Scheme for Heterogeneous Sensor Networks”, in *Proceedings of the IEEE Global Communications Conference (GC'09 CISS)*, Honolulu, HI, Nov. 30 - Dec. 4, 2009, (34.8% acceptance)

P. Loree, “Post-Deployment Key Management in Heterogeneous Wireless Sensor Networks,” M.S. thesis, Dept. of Computer Science, NDSU, Fargo, ND, 2010.

K.K. Gagneja, F. Ranganathan, S. Bou Ghosn, P. Loree, K.E. Nygard, “Limiting transmit power of antennas in Heterogeneous Sensor Networks,” in *Electro/Information Technology (EIT), 2012 IEEE Int'l Conference on*, Indianapolis, IN, 2012.

L.M. Alnemer *et al.*, “Wheat Zapper: a flexible online tool for colinearity studies in grass genomes,” in *Functional & Integrative GEconomics*, New York City, NY: Springer-Verlag, 2013, pp. 11-17.